(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 30 June 2005 (30.06.2005)

PCT

(10) International Publication Number WO 2005/059042 A2

(51) International Patent Classification7: 167/00, 167/08, B01F 17/00

C09D 5/02,

Shankarsa [IN/GB]; 34 Apsley Way, Ingleby Barwick, Cleveland TS17 5GD (GB).

(21) International Application Number:

PCT/GB2004/005240

(74) Agents: RALPH, Julie, Diane et al.; Uniqema Intellectual Property Dept., Wilton Centre, Wilton, Redcar, Cleveland TS10 4RF (GB).

(81) Designated States (unless otherwise indicated, for every

kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,

(22) International Filing Date:

15 December 2004 (15.12.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

0329178.8

17 December 2003 (17.12.2003)

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW. (84) Designated States (unless otherwise indicated, for every

(71) Applicants (for all designated States except US): IM-PERIAL CHEMICAL INDUSTRIES PLC [GB/GB]; 20 Manchester Square, London W1U 3AN (GB). UNICHEMA CHEMIE BV [NL/NL]; Buurtje 1, NL-2802 AA Gouda (NL). ICI AMERICAS INC [US/US]; 10 Finderne Avenue, Bridgewater NJ 08807 (US).

kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

(75) Inventors/Applicants (for US only): MANAMEE, William, Harry [US/US]; 704 Elmtree Lane, Claymont, DE 19703 (US). BLEASE, Trevor, Graham [GB/GB]; 5 Abbey Close, Stockton on Tees, Cleveland TS19 7SP (GB). GRADE, Johny, Denis [BE/BE]; Begijnenblokstraat 19, B-3320 Meldert (BE). BEVINAKATTI, Hanamanthsa,

Published:

without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SURFACTANT

(57) Abstract: A compound of the formula R1. [(AO)n.-R2]m (I) where: R1 is the residue of a group having at least m active hydrogen atoms; AO is an alkylene oxide residue; each n is independently from 1 to 100; m is at least 2; and each R2 is independently H, a C₁ to C₂₁ hydrocarbyl, or an acyl group -OC.R³, where R³ is a C₁ to C₂₁ hydrocarbyl group, wherein on average greater than one of the R² groups is or comprises a C₄ to C₂₁ hydrocarbyl group comprising at least two ethylenic double bonds. The compounds are particularly suitable for use in preparing aqueous emulsions or dispersions of resins and polymers, especially alkyd resins.

